Applicants: MALTSEV, Alexander, et al.   **RECEIVED**
Serial No.:   10/743,309   **CENTRAL FAX CENTER**
Filed: December 23, 2003
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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the Application. Please amend the claims to read as follows and cancel without prejudice or disclaimer the claims marked as canceled:

Listing of Claims

1.-43. (Canceled)

44.   (New) A method for transmitting between a wireless device and a plurality of stations, comprising:

dividing a frequency bandwidth of a channel into a plurality of sub-channels;

allocating a sub-channel from said plurality of sub-channels to each of the stations;

transmitting said allocation of said sub-channel the station allocated thereto;

transmitting a multicast transmission to the stations; and

receiving an acknowledgement from a station over said sub-channel allocated thereto.

45.   (New) The method of Claim 44, further comprising:

retransmitting said multicast transmission if an acknowledgment of said multicast transmission is not received from all of the plurality of stations.

46.   (New) The method of Claim 44, further comprising:

assigning a group to at least one of the plurality of stations; and

transmitting said group assignment to said at least one of said plurality of stations.

47.   (New) The method of Claim 46, wherein said assignment is based on a received signal strength of said at least one of the plurality of stations.

48.   (New) The method of Claim 46, wherein said assignment is based on a dynamic range of a receiver of said at least one of the plurality of stations.

49.   (New) The method of Claim 46, wherein said transmitting of said multicast transmission is to all stations assigned to said group.

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50. (New) A processor-readable storage medium having stored thereon instructions
     that, if executed by a processor, cause the processor to perform a method
     comprising:

     dividing a frequency bandwidth of a channel into a plurality of sub-channels;

     allocating a sub-channel from said plurality of sub-channels to each of a plurality of
     stations;

     transmitting said allocation of said sub-channel to the station.allocated thereto;

     transmitting a multicast transmission to said stations; and

     receiving an acknowledgement from a station from said plurality of stations over
     said sub-channel allocated thereto.

51. (New) The processor-readable storage medium of Claim 50, wherein the method
     further comprises:

     retransmitting said multicast transmission if an acknowledgment of said multicast
     transmission is not received from all of said plurality of stations.

52. (New) The processor-readable storage medium of Claim 50, wherein the method
     further comprises:

     assigning a group to at least one of said plurality of stations; and

     transmitting said group assignment to said at least one of said plurality of stations.

53. (New) A wireless device, comprising:

     a channel divider for dividing a frequency bandwidth of a channel into a plurality of
     sub-channels;

     an allocator for allocating a sub-channel from said plurality of sub-channels to each
     of a plurality of stations;

     a transmitter for transmitting said allocation of said sub-channel to the station
     allocated thereto and for transmitting a multicast transmission to said stations; and

     a receiver for receiving an acknowledgement from a station from said plurality of
     stations over said sub-channel allocated thereto.

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54. (New) The wireless device of Claim 53, wherein said transmitter is for retransmitting said multicast transmission if an acknowledgment of said multicast transmission is not received from all of said plurality of stations.

55. (New) The wireless device of Claim 53, further comprising:

an assignor for assigning a group to at least one of said plurality of stations, and wherein said transmitter is for transmitting said group assignment to said at least one of said plurality of stations.

56. (New) A processor for a wireless device, comprising:

a channel divider for dividing a frequency bandwidth of a channel into a plurality of sub-channels;

an allocator for allocating a sub-channel from said plurality of sub-channels to each of a plurality of stations; and

a controller for a transmitter for transmitting said allocation of said sub-channel to the station allocated thereto and for transmitting a multicast transmission to said stations and for a receiver for receiving an acknowledgement from a station from said plurality of stations over said sub-channel allocated thereto.

57. (New) The processor of Claim 56, wherein said controller controls said transmitter for retransmitting said multicast transmission if an acknowledgment of said multicast transmission is not received from all of said plurality of stations.

58. (New) The processor of Claim 56, further comprising:

an assignor for assigning a group to at least one of said plurality of stations, and wherein said controller controls said transmitter for transmitting said group assignment to said at least one of said plurality of stations.

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59. (New) A wireless device, comprising:

a channel divider for dividing a frequency bandwidth of a channel into a plurality of sub-channels;

an allocator for allocating a sub-channel from said plurality of sub-channels to each of a plurality of stations;

a transmitter for transmitting said allocation of said sub-channel to the station allocated thereto and for transmitting a multicast transmission to said stations;

a receiver for receiving an acknowledgement from a station from said plurality of stations over said sub-channel allocated thereto; and

a dipole antenna operably connected to said transmitter and said receiver.

60. (New) The wireless device of Claim 59, wherein said transmitter is for retransmitting said multicast transmission if an acknowledgment of said multicast transmission is not received from all of said plurality of stations.

61. (New) The wireless device of Claim 59, further comprising:

an assignor for assigning a group to at least one of said plurality of stations, and wherein said transmitter is for transmitting said group assignment to said at least one of said plurality of stations.

62. (New) A method for transmitting between a station and a wireless device, comprising:

receiving an allocation of a sub-channel of a plurality of sub-channels from the wireless device, wherein said sub-channels are a frequency bandwidth division of a channel;

receiving a multicast transmission from the wireless device; and

transmitting to the wireless device an acknowledgment over said sub-channel allocated to the station.

63. (New) The method of Claim 62, further comprising:

requesting membership in a group comprising at least one station; and

transmitting said group membership request to the wireless device.

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64. (New) A processor-readable storage medium having stored thereon instructions that, if executed by a processor, cause the processor to perform a method comprising:

receiving an allocation of a sub-channel of a plurality of sub-channels from a wireless device, wherein said sub-channels are a frequency bandwidth division of a channel;

receiving a multicast transmission from said wireless device; and

transmitting to the wireless device an acknowledgment over said sub-channel allocated to the station.

65. (New) The processor-readable storage medium of Claim 64, wherein the method further comprises:

requesting membership in a group comprising at least one station; and

transmitting said group membership request to said wireless device.

66. (New) A station, comprising:

a receiver for receiving an allocation of a sub-channel of a plurality of sub-channels from a wireless device, wherein said sub-channels are a frequency bandwidth division of a channel and for receiving a multicast transmission from said wireless device; and

a transmitter for transmitting to the wireless device an acknowledgment over said sub-channel allocated to the station.

67. (New) The station of Claim 66, further comprising:

a requestor for requesting membership in a group comprising at least one station; and wherein said transmitter is for transmitting said group membership request to said wireless device.

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68. (New) A processor, comprising:

a controller for a receiver for receiving an allocation of a sub-channel of a plurality of sub-channels from a wireless device, wherein said sub-channels are a frequency bandwidth division of a channel and for receiving a multicast transmission from said wireless device and for a transmitter for transmitting to the wireless device an acknowledgment over said sub-channel allocated to the station.

69. (New) The processor of Claim 68, further comprising:

a requestor for requesting membership in a group comprising at least one station; and wherein said controller controls said transmitter for transmitting said group membership request to said wireless device.

70. (New) A station, comprising:

a receiver for receiving an allocation of a sub-channel of a plurality of sub-channels from a wireless device, wherein said sub-channels are a frequency bandwidth division of a channel and for receiving a multicast transmission from said wireless device;

a transmitter for transmitting to the wireless device an acknowledgment over said sub-channel allocated to the station; and

a dipole antenna operably connected to said transmitter and said receiver.

71. (New) The station of Claim 70, further comprising:

a requestor for requesting membership in a group comprising at least one station; and wherein said transmitter is for transmitting said group membership request to said wireless device.

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72. (New) A method for transmitting and receiving between a wireless device and a
    plurality of stations, comprising:

    dividing a frequency bandwidth of a channel into a plurality of sub-channels by the
    wireless device;

    allocating a sub-channel from said plurality of sub-channels to each of the stations
    by the wireless device;

    transmitting said allocation of said sub-channel to the station allocated thereto by
    the wireless device;

    receiving said allocation from the wireless device by at least one of the stations;

    transmitting a multicast transmission to the stations by the wireless device;

    receiving said multicast transmission from the wireless device by at least one of the
    stations;

    transmitting to the wireless device an acknowledgment by at least one of the
    stations which received said multicast transmission over said sub-channel allocated
    to the station; and

    receiving said acknowledgement from at least one of the stations which received
    said multicast transmission over said sub-channel allocated thereto.

73. (New) The method of Claim 72, further comprising:

    retransmitting said multicast transmission by the wireless device if an
    acknowledgment of said multicast transmission is not received from all of the
    plurality of stations.

74. (New) The method of Claim 72, further comprising:

    assigning a group to at least one of the plurality of stations by the wireless device;
    and

    transmitting said group assignment to said at least one of said plurality of stations
    by the wireless device.

75. (New) The method of Claim 74, wherein said assignment is based on a received
    signal strength of said at least one of the plurality of stations.

76. (New) The method of Claim 74, wherein said assignment is based on a dynamic
    range of a receiver of said at least one of the plurality of stations.

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77. (New) The method of Claim 74, wherein said transmitting of said multicast transmission by the wireless device is to all stations assigned to said group.

78. (New) A wireless communication system, comprising:

a wireless device and a plurality of stations, wherein said wireless device comprises:

a channel divider for dividing a frequency bandwidth of a channel into a plurality of sub-channels;

an allocator for allocating a sub-channel from said plurality of sub-channels to each of said plurality of stations;

a transmitter for transmitting said allocation of said sub-channel to the station allocated thereto and for transmitting a multicast transmission to said stations; and

a receiver for receiving an acknowledgement from a station from said plurality of stations over said sub-channel allocated thereto; and

wherein at least one of said plurality of stations, comprises:

a receiver for receiving said allocation of said sub-channel from said wireless device and for receiving said multicast transmission from said wireless device; and

a transmitter for transmitting to said wireless device said acknowledgment over said sub-channel allocated to the station.

79. (New) The wireless communication system of Claim 78, wherein said transmitter of said wireless device is for retransmitting said multicast transmission if an acknowledgment of said multicast transmission is not received from all of said plurality of stations.

80. (New) The wireless communication system of Claim 78, wherein said wireless device further comprises an assignor for assigning a group to at least one of said plurality of stations, and wherein said transmitter is for transmitting said group assignment to said at least one of said plurality of stations.

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81.   (New) The wireless communication system of Claim 78, wherein said at least of
      said plurality of station further comprises a requestor for requesting membership in
      a group comprising at least one station; and wherein said transmitter is for
      transmitting said group membership request to said wireless device.